

Introducing OSID a Reliable alternative to Beam Detection



FIRE SUPPRESSION LTD
VESDA, FIRE DETECTION & FIRE SUPPRESSION

Open-Area Smoke Imaging Detection

Robust fire protection for occupied spaces

0845 862 7947



What is OSID?

- Open-area Smoke Imaging Detection
- OSID Smoke Imaging Detection is a revolutionary new dual wavelength projected beams and optical imaging system for early warning smoke detection (Class C)

Can OSID Replace my existing unreliable beams?

- Yes, can be retrofitted to any system. Both the emitter and imagers can be powered from most analogue addressable loops
- OSID is easily installed and commissioned
- OSID only requires 150mm of vertical space to install



What are the advantages of OSID?

- OSID is not just a line of sight beam smoke detector, it monitors its periphery zones as well
- Battery powered or wired emitters are available. Battery powered emitters last for approximately 5 years
- Install up to 7 emitters (Sender) to one imager (receiver) to provide maximum deflection
- Multiple emitters back to one receiver provides blanket smoke detection
- OSID is Dust resilient, using its coded UV and IR wave technology
- UL and FM approvals (others pending)
- No moving parts (motors do fail)
- HORIZONTAL AND VERTICAL VIEW – UNLIKE TRADITIONAL BEAM SETS
- Irregular shaped building is not an issue
- Imager incorporates a demister as Standard

For further information, contact Fire Suppression Limited

sales@firesuppression.co.uk

Tel - 0845-1279915 Fax - 0845-1279959



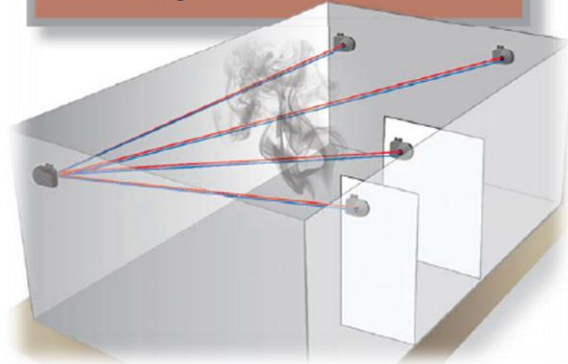
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Where would OSID be installed?

- Airports
- Train Stations
- Long Corridors
- Logistics Warehouses
- Museums
- Stadiums
- Atriums
- Dirty Environments
- Shopping Malls
- Sports Centre's
- Ceiling Voids

Benefits of OSID

- Simple and quick installation
- High tolerance to vibrations, building movement and high airflow
- Reliable discrimination between real smoke and other intruding objects such as dust, steam, birds, insects and forklifts
- Requires only 20 cm (8 in.) free space
- 3-D coverage



Specifications

Supply Voltage

20 to 30 VDC (24 VDC nominal)

Imager Current Consumption

Nominal (at 24 VDC):

4mA (1 Emitter)

7mA (7 Emitters)

Peak (at 24 VDC) during training mode: 27mA

Emitter Current Consumption

Wired Version (at 24 VDC): 350µA

Battery Version:

Built-in 5 Year Battery

Field Wiring

Cable Guage

0.2 - 4mm² (28-12 AWG)

Alarm Threshold Levels:

Low - Highest sensitivity / earliest alarm: 20% (0.97 dB)

Medium - Medium sensitivity: 35% (1.87 dB)

High - Lowest sensitivity / maximum immunity to nuisance smoke conditions: 50% (3.01 dB)

Adjustment Angle

±60° (horizontal)

±15° (vertical)

Maximum Misalignment Angle

±2°

Dimensions (WHD)

Emitter / Imager:

198 mm x 130 mm x 96 mm
(7.80 in. x 5.12 in. x 3.78 in.)

Operating Conditions

Temperature:

0 °C to 39 °C (32 °F to 103 °F)

Tested to:

-10 °C to 55 °C (14 °F to 131 °F)

Humidity:

10 to 95% RH (non-condensing)

Please consult your Xtralis office for operation outside these parameters.

IP Rating

IP 44 for Electronics

IP 66 for Optics Enclosure

Status LEDs

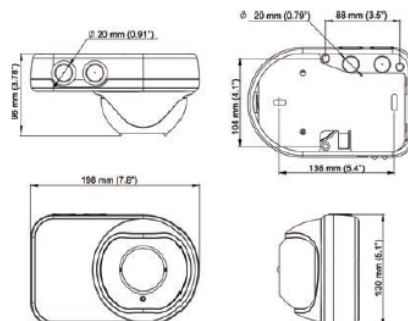
Fire Alarm (Red)

Trouble / Power (Bi-color Yellow / Green)

OSID vs Beam Detectors

	OSID	Beam Detectors
Dust resilient	Yes	No
Affected by light	No	Yes
Affected by Building Movement	No	Yes
Affected by Birds, Spiders and other insects	No	Yes
Vertical Detection	Yes	No
Adaptable to Irregular Shaped risks	Yes	No
Battery Power emitters	Yes	No
Wide Angle Detection	Yes	No

Emitter / Imager Dimensions



Ordering Codes

OSI-10 Imager - 7° coverage
OSI-45 Imager - 38° coverage
OSI-90 Imager - 80° coverage

OSE-SP Emitter - Standard Power
OSE-SPW Emitter - Standard Power, Wired
OSE-HPW Emitter - High Power, Wired
OSID-INST OSID Installation Kit

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